What is claimed is:

1. An adjustable wrench structure for engaging and rotationally driving conventional hex fasteners including hex-head bolts and hex nuts of any size within in a predetermined size range, comprising:

a main body configured with at least one socket cavity having a special modified hex cross-sectional shape characterized by a group of three adjacent standard-sized facets and a group of three non-standard-sized facets consisting of an undersized facet and two equally oversized facets flanking the undersized facet, the main body being configured with a threaded radial bore traversing a wall thereof diametrically opposite the undersized facet:

a clamping screw, threadedly engaged in the radial bore of the main body, made and arranged to engage a hex fastener, inserted into the socket cavity, for purposes of rotationally driving the hex fastener, by applying a clamping force, generated by rotationally tightening the clamping screw, to a facet of the hex fastener and thus forcing at least one other facet of the hex fastener against a corresponding main body constraint pattern formed by at least one of the non-standard-sized facets of the socket cavity: and

driving means for receiving rotational driving torque from a driving tool to be transmitted via said main body to a driven hex fastener located in the socket cavity.

2. The adjustable socket wrench as defined in claim 1 wherein

said main body is generally cylindrical in shape having a first end region and a second end region opposite the first end region;

said socket cavity is located in the first end region of said main body, and

said driving means comprises said main body being configured with a drive cavity of square cross-section, located coaxially at the second end region of the main body, made and arranged to engage a square end portion of a conventional socket wrench driving tool.

3. The adjustable socket wrench as defined in claim 1 wherein said clamping screw is configured, at an end thereof outermost from the socket cavity, with a diametrically disposed drive bar, made and

arranged to facilitate manual rotation of said clamping screw for loosening and tightening purposes.

4. The adjustable socket wrench as defined in claim 1 in a dual embodiment comprising, in addition to said socket cavity and said clamping screw located at a first end region of said main body:

a second socket cavity, generally similar to but smaller in size than said first socket cavity, located in a second end region of said main body, made and arranged to complement said first socket cavity and thus enable the adjustable socket wrench to accommodate an overall size range of hex fasteners greater than that of a single socket cavity;

a second clamping screw, associated with said second socket cavity, located and structurally related thereto in the same manner as said first clamping screw relative to said first socket cavity: and

said driving means being implemented as a transverse bulkhead, disposed centrally in said main body between said first socket cavity and said second socket cavity, configured with a generally coaxial square opening made and arranged to drivingly engage a square end portion of a conventional socket wrench driving tool, such that, whichever socket cavity is selected for deployment to drive a hex fastener inserted therein, the square end portion of the conventional socket wrench driving tool may be inserted through the other socket cavity at the opposite end region of the main body and engaged into the square opening to rotationally drive the adjustable socket wrench.

5. The adjustable socket wrench in a dual embodiment as defined in claim 4 wherein:

each of said first and second clamping screws is configured, at an end thereof outermost from the corresponding socket cavity, with a diametrically disposed drive bar, made and arranged to facilitate manual rotation of the clamping screw for purposes of tightening and loosening thereof.

6. The adjustable socket wrench in a dual embodiment as defined in

claim 5 wherein said second clamping screw is made smaller than said first clamping screw.

7. The adjustable socket wrench in a dual embodiment as defined in claim 4 wherein the first end region of the main body is made to have a first diameter, the second and opposite end region is made to have a second diameter, smaller than the first diameter, and a central region of the main body is configured to taper from the diameter of the first end region to the diameter of the second end region.

8. The adjustable socket wrench in a dual embodiment as defined in claim 4 wherein the overall size range is made to have a 2:1 ratio.

9. The adjustable socket wrench in a dual embodiment as defined in claim 8 wherein the predetermined nominal facet-size ratio for each of the first and second socket cavities is made to be approximately $\sqrt{2}$:1, i.e. 1.414:1, and the predetermined nominal cavity-size ratio is also made to be approximately $\sqrt{2}$:1 i.e. 1.414:1, thus providing the total nominal size range of 2:1.

10. The adjustable socket wrench in a dual embodiment as defined in claim 8 wherein the first socket cavity is dimensioned to accommodate hex fasteners in a nominal size range from 3/4" to 9/16" (0.75" to 0.5625") and the second socket cavity is dimensioned to accommodate hex fasteners in a nominal size range from 9/16" to 3/8" (0.5625" to 0.375").

11. The adjustable socket wrench in a dual embodiment as defined in claim 7 wherein said main body is made to have a nominal diameter of 1.25" in the first end region and a nominal diameter of 1.0" in the second end region.

12. The dual adjustable socket wrench as defined in claim 11 wherein said main body is made to have a nominal total length of 2.25" and the square drive opening is made 3/8" nominal per side.

13. The dual adjustable socket wrench as defined in claim 8 wherein the first socket cavity is dimensioned to accommodate hex fasteners in a nominal size range from 20mm to 14mm (0.787" to 0.551") and the second socket cavity is dimensioned to accommodate hex fasteners in a nominal size range from 14mm to 10mm (0.551" to 0.394").